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Aq. hair-cosmetic compsn. - contg. quat. acrylic-based quat. polymeric ammonium salt, monomeric to oligomeric ammonium salt and surfactant

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Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
<b>EP 80976</b>	A	19830608			198324	B
JP 58103546	A	19830620			198330	
EP 80976	B	19860924			198639	
DE 3273489	G	19861030			198645	

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Cited Patents: 3.Jnl.Ref; EP 45720; EP 47714; GB 1073947; GB 1342176; GB 2027045; JP 53024036; JP 54043211; JP 54135234

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Designated States (Regional): CH DE FR GB IT LI

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Abstract (Basic): EP 80976 A

Aq. cosmetic compsns. having pH 3-8 contain at least (A) an aq. tenside system-soluble or micro-emulsifiable polymeric acrylic-based quat. ammonium salt having mol. wt. distribution 10 power 4 to 10 power 9, provided the mol. wt. of at least 5 (5-60) wt.% of the polymeric salt is 10 power 7 to 10 power 9, (B) a monomeric to oligomeric ammonium salt contg. 1-3 quat. N atoms and having mol. wt. max. 9000 and (C) a nonionic tenside, a tenside having intramolecular positive and negative charge and/or an anionic, opt. zwitter-ionic surfactant.

The salt (A) contains repeat structural units of formula

-CH<sub>2</sub>-CA<sub>1</sub>(-CO-D<sub>1</sub>-E<sub>1</sub>-NR<sub>1</sub>R<sub>2</sub>-QY<sub>1</sub>)- (I)

and opt. in opt. sequence at least 1 of the repeat structural units having formula -CH<sub>2</sub>-CA<sub>2</sub>(CONH<sub>2</sub>)- (Ia), -CH<sub>2</sub>-CA<sub>3</sub>G<sub>1</sub>- (Ib) and -CH<sub>2</sub>-CA<sub>4</sub>G<sub>2</sub>- (Ic) (where A<sub>1</sub>, A<sub>2</sub>, A<sub>3</sub> and A<sub>4</sub> each is H or Me; G<sub>1</sub> and G<sub>2</sub> differ from another and each is -CN, -COOH or -CO-D<sub>2</sub>-E<sub>2</sub>-NR<sub>3</sub>R<sub>4</sub>; D<sub>1</sub> and D<sub>2</sub> each is -O- or -NH-; E<sub>1</sub> and E<sub>2</sub> each is 1-4C alkylene opt. substd. by OH; R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> each is Me or Et; Q is alkyl, 1-4C hydroxyalkyl or benzyl

and Y1 is a halide-, 1-4C alkyl-sulphate or alkyl-phosphonate anion).

On using an anionic tenside as (C), (A) contains structural units having formula (Ia) in addn. to (I) and the anionic tenside is reacted, at least partly, with components (A) and (B) under ion exchange.

The compsns. are used in cosmetics, esp. hair-cosmetics. The compsns. combine good washing- and conditioning effects on hair, e.g. combing out when wet or dry, prevention of static electricity, gloss-retention, vol. and fullness and hand.

Title Terms: AQUEOUS; HAIR; COSMETIC; COMPOSITION; CONTAIN; QUATERNARY; ACRYLIC; BASED; QUATERNARY; POLYMERISE; AMMONIUM; SALT; MONOMERIC; OLIGOMERISE; AMMONIUM; SALT; SURFACTANT

Derwent Class: A96; D21; E16

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C08L-033/04; C11D-003/37

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